

CANDIDATE EXAM PAPER

CANDIDATE NUMBER: _____

OCE1 – Legislation

**OPEN CUT EXAMINER OF COAL MINES OTHER THAN UNDERGROUND COAL
MINES**

EXAMINATION FOR CERTIFICATE OF COMPETENCE

Work Health and Safety (Mines and Petroleum Sites) Act 2013
Work Health and Safety (Mines and Petroleum Sites) Regulation 2014

Legislation to be assessed:

Unless otherwise stated all references to Act and Regulations are to:

Work Health and Safety Act 2011

Work Health and Safety Regulation 2017

Work Health and Safety (Mines and Petroleum Sites) Act 2013

Work Health and Safety (Mines and Petroleum Sites) Regulation 2014

Explosives Act 2003

Explosives Regulation 2013

This Examination is held in the following location:

Region: New South Wales

Venue: Tocal College

Room: The Hall

Start date/time: 08 Jun 2022 09:20:00

Duration 1 Hour

OCE1 – Legislation

INSTRUCTIONS TO CANDIDATES

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Q #	Marks	Available Marks	Marked by <i>Initials</i>	Summary comments to justify
1		25		
2		25		
3		25		
4		25		
Paper Total		100		<i>Marks checked by:</i>

EXAM BOOKLET

Answers are to be written in the allocated spaces
within this booklet ONLY

Answers must be written in pen however,
drawings may be completed in pencil

This booklet is not to be altered in any way,
pages are not to be added or removed

Additional space is provided at the end of the paper.

Please label which question the answer relates to.

Please state all assumptions.

Question 1

a. What is the meaning of a principal hazard? (4 Marks)

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b. Select 4 Principal Hazards for an open cut mine. For each, list 3 relevant activities/areas you would inspect as part of your statutory OCE inspection and provide examples of the hazards you would look for examine. (15 Marks)

PHMP	3 Activities/Areas	Hazards
1.		
2.		
3.		
4.		

c. List 6 key matters that must be considered in developing the control measures to manage the risks of roads or other vehicle operating areas. (6 Marks)

Question 2



You are the OCE on nightshift when you receive a distressed call from the driver of a light vehicle that has rolled at speed. The driver is conscious and reports he has sustained significant cuts to the head and arms and cannot get out of the vehicle.

a. Summarise the immediate steps you would take as an OCE to manage this incident to meet legislative and site safety management system requirements. (10 Marks)

b. Summarise the notification requirements for this incident? (5 Marks)

c. In what circumstances can the site be disturbed? (5 Marks)

d. What are the six types of incidents that must be reported to the NSW Resources Regulator if they occur at an open cut mine. (5 Marks)

Question 3

a. In managing risks to health and safety associated with explosives and explosive precursors at an open cut mine, the operator must ensure certain requirements are met. Itemise 4 of these requirements. (8 Marks)

b. Who is the regulatory authority in relation to explosives and shot firing at an open cut mine? (2 Marks)

c. At the end of day shift a shotfirer in charge of a large blast area calls you to advise that two down lines and detonators are missing. List 5 actions you would take to manage this incident to meet legislative requirements. (5 Marks)

d. Despite all steps to find them, the downlines remain missing. Summarise the notification requirements relating to this type of incident. (4 Marks)

e. In your OCE inspection plan you are required to conduct periodic inspections of the explosive's magazine. Outline 6 items of focus in your inspection to ensure site and legislative compliance. (6 Marks)

Question 4

a. What is the definition of "Health and Safety Representative (HSR)"? (3 Marks)

b. Outline 5 powers or functions of a HSR. (5 Marks)

c. In exercising a power or function, describe 3 instances where a HSR can inspect the workplace. (5 Marks)

d. Outline 3 circumstances that trigger the establishment of a Health & Safety Committee (HSC) (3 Marks)

e. What are the 2 main functions of a HSC? (4 Marks)

f. What is the composition of a Health & safety Committee at an open cut coal mine? (5 Marks)

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CANDIDATE EXAM PAPER

CANDIDATE NUMBER: _____

OCE2 – Practical Open Cut Operations

OPEN CUT EXAMINER OF COAL MINES OTHER THAN UNDERGROUND COAL MINES

EXAMINATION FOR CERTIFICATE OF COMPETENCE

Work Health and Safety (Mines and Petroleum Sites) Act 2013
Work Health and Safety (Mines and Petroleum Sites) Regulation 2014

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Explosives Act 2003

Explosives Regulation 2013

This Examination is held in the following location:

Region: New South Wales

Venue: Tocal College

Room: The Hall

Start date/time: 08 Jun 2022 11:35:00

Duration: 2 Hours

OCE2 – Practical Open Cut Operations

INSTRUCTIONS TO CANDIDATES

OCE2 – Practical Open Cut Operations | Jun-2022

Q #	Marks	Available Marks	Marked by <i>Initials</i>	Summary comments to justify
1		50		
2		50		
3		50		
4		50		
Paper Total		200		<i>Marks checked by:</i>

EXAM BOOKLET

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Please state all assumptions.

Question 1

You have started a new job as an OCE at a large open cut coal mine. One of the responsibilities of the role is to supervise the operation of the washed coal stockpile including train loading operations. The Coal stockpile capacity is 300,000t over a reclaim tunnel with 10 valves. There is a dedicated Caterpillar D11 stockpile dozer at the stockpile.

a. As a new OCE to site, what information would you review in preparation for commencing supervision of the stockpile management and train loader operations? **(10 marks)**

b. You review the risk assessment for operating the clean coal stockpile. Describe the hazards and controls that you would expect to be addressed in this risk assessment? **(20 marks)**

c. You have been an OCE on the job for 10 shifts with no issues on the coal stockpiles. Whilst loading a train, you receive a call from the train loader operator reporting the coal on the belt is hot and has significant steam emitting from it. What are your immediate actions? **(10 marks)**

b. Is this incident notifiable? If so, specify the clause and incident description under which it would be notified and notification requirement details. **(5 marks)**

c. What initial incident information would you gather for use in an investigation? **(5 marks)**

d. Your Manager has asked you to conduct the investigation into this incident. Outline the process you would use and the steps you would take to ensure an effective investigation. **(10 marks)**

e. List 5 key actions that may result from the investigation to prevent a similar type of incident on site. **(5 marks)**

f. Outline the steps you would take to recover the semi-trailer and get the reload facility safe to resume operations. **(10 marks)**

Question 3

You are the OCE of a small open cut mine filling in for the D&B Supervisor on leave. Your mine has decided to conduct a through-seam blast in an area of thinner partings and coal seams which has not been done at the mine for a few years. Your MEM has asked you to coordinate this activity.

a. Define “through seam blasting”? **(3 Marks)**

b. Name 5 advantages and 5 disadvantages or challenges of through seam blasting? **(10 marks)**

d. In the area to be blasted the profile consists of;

- 6m mudstone layer (first parting),
- 1m hard coal (first seam),
- 3m mudstone layer (second parting)
- 2m soft coal seam (bottom seam).

Previous drilling in this area has generated wet holes.

Draw a diagram illustrating your recommended load profile of the blasthole column including; **(15 Marks)**

- Drill Diameter
- Hole Depth
- Explosive's type and distribution
- Type and use of initiating explosives
- Stemming requirements

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e. Heavy rain has resulted in approximately one quarter of the loaded shot being covered by water. The area is required to be blasted to meet a critical path in the mine plan. List the steps you would take and the controls you would implement to prepare the shot to enable safe initiation. **(10 marks)**

Question 4

You have just been appointed as an OCE at an open cut coal mine. As part of the operation, a contractor haulage company has recently been awarded a contract to haul ROM coal from the mine to a CHPP which is located offsite 40km away. The coal will be transported via B-double trucks and it is estimated that there will be 20-30 loads per shift taken to the CHPP.

a. What are the legislative requirements of the mine operator and contractor before commencing work at the mine? **(10 marks)**

A few weeks after the contract has commenced, you notice a B-double truck entering the ROM coal area and failing to obey the mine traffic rules. As a result, the truck narrowly avoided contact with a manned light vehicle (less than 5m apart). There were no injuries or damage.

c. What type of incident is this and why? **(5 marks)**

d. With regards to the contractor, what are some key control measures you would review as part of the incident investigation? **(10 marks)**

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